

P070-07610

ADDENDUM NUMBER 1

OAK LEAF TRAIL OZAUKEE INTERURBAN
/ KOHL PARK CONNECTOR
Milwaukee, WI

Project Number: P070-07610
WisDOT Project I.D. 2972-07-70

Date of Addendum: March 25, 2011

This Addendum to the Contract Documents is issued to modify, explain or correct the original documents, dated November 23, 2010, and is hereby made part of the Contract Documents. Acknowledge receipt of this Addendum in the space provided on the Bid Form, or bid may be rejected.

SECTION 02890 - PRE-FABRICATED BRIDGES

Delete Part 2.2 Materials, Paragraph C and replace with:

Wood Decking and Attachments: West Coast Region Douglas Fir or Southern Yellow Pine. Decking shall be treated to AWPA standards. Preservative utilized shall be AWPA treatment C2, using water borne preservative. Decking shall be treated to a total absorption of 0.40 pounds per cubic foot of wood or to refusal. Rub rail shall be made of the same material.

SAFETY RAIL

Sheet 32 of 67 of Plan Set

Delete "Vertical Pickets Spaced at 4" On Center" and replace with "Horizontal Safety Rail Spaced 4" On Center".

SAFETY RAIL

Sheet 38 of 67 of Plan Set

Delete "Vertical Pickets Spaced at 4" On Center" and replace with "Horizontal Safety Rail Spaced 4" On Center".

BORING LOGS

Sheet 37 of 67 and Sheet 42 of 67 of the Boring Logs are difficult to read. The boring logs from the geotechnical report are included with this addendum. The entire Geotechnical Report is available for review at Milwaukee County, City Campus, 2711 W. Wells Street, Milwaukee, WI 53208.

End of Addendum No. 1

LOG OF TEST BORING

GENERAL NOTES

Descriptive Soil Classification

GRAIN SIZE TERMINOLOGY

Soil Fraction	Particle Size	U.S. Standard Sieve Size
Boulders.....	Larger than 12".....	Larger than 12"
Cobbles.....	3" to 12".....	3" to 12"
Gravel: Coarse.....	3/4" to 3".....	3/4" to 3"
Fine.....	4.78mm to 3/4".....	#4 to 3/4"
Sand: Coarse.....	2.00mm to 4.78mm.....	#10 to #4
Medium.....	0.42mm to 2.00mm.....	#40 to #10
Fine.....	0.074mm to 0.42mm.....	#200 to #40
Silt	0.005mm to 0.074mm.....	Smaller than #200
Clay.....	Smaller than 0.005mm.....	Smaller than #200

*Plasticity characteristics differentiate between silts and clay.

GENERAL TERMINOLOGY

Physical Characteristics:

Color, moisture, grain shape, fineness, etc.

Major Constituents:

Clay, silt, sand, gravel

Structure:

Laminated, varved, fibrous, stratified,
cemented, fissured, etc.

Geologic Origin:

Glacial, alluvial, solian, residual, etc.

ORGANIC CONTENT BY COMBUSTION METHOD

Soil Description	Loss on Ignition
Non Organic.....	Less than 4%
Organic Silt/Clay.....	4-12%
Sedimentary Peat.....	12-50%
Fibrous and Woody Peat.....	More than 50%

CONSISTENCY

Term	q tons/sq. ft.
Very Soft.....	0.0 to 0.25
Soft.....	0.25 to 0.50
Medium.....	0.50 to 1.0
Stiff.....	1.0 to 2.0
Very Stiff.....	2.0 to 4.0
Hard.....	Over 4.0

PLASTICITY

Term	Plastic Index
None to Slight.....	0-4
Slight.....	5-7
Medium	8-22
High to Very High.....	Over 22

RELATIVE PROPORTIONS OF COHESIONLESS SOILS

Proportional Term	Defining Range By Percentage of Weight
Trace.....	0% - 5%
Little.....	5% - 12%
Some.....	12% - 35%
And.....	35% - 50%

RELATIVE DENSITY

Term	"N" Value
Very Loose.....	0-4
Loose.....	4-10
Medium Dense.....	10-30
Dense.....	30-50
Very Dense.....	Over 50

Symbols

DRILLING AND SAMPLING

CS-Continuous Sampling
RC-Rock Coring: Size AW, BW, NW, 2"W
RQD-Rock Quality Designator
RB-Rock Bit
FT-Fish Tail
DC-Drove Casing
C-Casing: Size 2.5", NW, 4", HW
CW-Clear Water
DM-Drilling Mud
HSA-Hollow Stem Auger
FA-Flight Auger
HA-Hand Auger
COA-Clean-Out Auger
SS-2" Diameter Split-Barrel Sample
ST2-2" Diameter Thin-Walled Tube Sample
ST-3" Diameter Thin-Walled Tube Sample
PT-3" Diameter Piston Tube Sample
AS-Auger Sample
WS-Wash Sample
GP- 2" Geoprobe Tube Sample
PTS-Peat Sample
PS-Pitcher Sample
GRAB-Grab Sample
NR-No Recovery
M- Observed Moist Soil Conditions
S- Observed Saturated Soil Conditions
W- Observed Wet Soil Conditions
SO-Sounding
PMT-Borehole Pressuremeter Test
VS-Vane Shear Test
WPT-Water Pressure Test

LABORATORY TESTS

qu -Penetrometer Reading, tons/sq. ft.
Qu -Unconfined Strength, tons/sq. ft.
W-Moisture Content, %
LL-Liquid Limit, %
PL-Plastic Limit, %
SL-Shrinkage Limit, %
LI-Loss on Ignition, %
D-Dry Unit Weight, lbs./cu. ft.
pH-Measure of Soil Alkalinity or Acidity
FS-Free Swell, %

WATER LEVEL MEASUREMENT

-Water Level at time shown
NW-No Water Encountered
WD-While Drilling
BCR-Before Casing Removal
ACR-After Casing Removal
CW-Caved and Wet
CM-Caved and Moist

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☐

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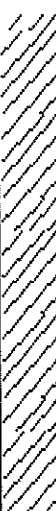
Facility/Project Name Oak Leaf Trail - Green Bay Rd. & Teutoni			License/Permit/Monitoring Number		Boring Number B-1
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: K Last Name: H Firm: Soils and Engineering Services, Inc.			Date Drilling Started 07 / 24 / 2008 m m / d d / y y y y	Date Drilling Completed 07 / 24 / 2008 m m / d d / y y y y	Drilling Method hollow stem auger
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level Feet MSL	Surface Elevation 658.43 Feet MSL	Borehole Diameter 8 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane N, E C Lat 0 ' "			Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E NW 1/4 of SW 1/4 of Section 12, T 8 N, R 21 E Long 0 ' "		
Facility ID		County MILWAUKEE	County Code 41	Civil Town/City/ or Village Brown Deer	

Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 SS	6	10	0.0 - 2.5	TOPSOIL - medium dense, brown, clayey sand with gravel, trace organics	TO					11.4				
2 SS	3	11	2.5 - 3.0 3.0 - 5.0	SANDY CLAY (CL) - very stiff, brown, moist, trace gray silt	TO CL				3.5	20.3				
3 SS	10	9	5.0 - 7.5		CL				3.5	20				
4 SS	12	26	7.5 - 8.0 8.0 - 10.0	SILTY SAND (SM) - medium dense, tan, moist	CL SM					13.3			42.1	
5 SS	14	14	10.0 - 11.0 11.0 - 12.5	SANDY SILT (ML) - medium dense, gray, moist to saturated	SM ML					20				Saturated at 12.33'
6 SS	16	12	12.5 - 15.0		ML					20.8				
7 SS	16	16	15.0 - 15.5 15.5 - 17.5	SAND (SW) - medium dense, gray, saturated, medium to fine grained sand, some gray silt	ML SW					12.3				
8 SS	16	18	17.5 - 18.0 18.0 - 20.0	SILTY SAND (SM) - medium dense, gray, saturated, trace gravel	SW SM					10.5	15	9	49.8	
9 SS	18	54	20.0 - 20.5 20.5 - 22.5	SANDY CLAY (CL) - very stiff to hard, gray, moist, some silt	SM CL					13.3				

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm K. SINGH & ASSOCIATES, INC.

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Sample		Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
10 SS	18	47	22.5 - 25.0	CL					4.5	15.4				
11 SS	14	47	25.0 - 30.0	CL					3	15				
12 SS	10	32	30.0 - 35.0	CL					4.3	16.6				
			35.0 - 36.0	End of borehole at 35 feet. Borehole abandoned with 4 bags of bentonite chips.										

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelpment ☐ Other ☐

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Facility/Project Name Oak Leaf Trail - Green Bay Rd. & Teutoni			License/Permit/Monitoring Number		Boring Number B-2
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: K Last Name: H Firm: Soils and Engineering Services, Inc.			Date Drilling Started 07 / 24 / 2008 m m / d d / y y y y	Date Drilling Completed 07 / 24 / 2008 m m / d d / y y y y	Drilling Method hollow stem auger
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level Feet MSL	Surface Elevation 656.46 Feet MSL	Borehole Diameter 8 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane N, E NW 1/4 of SW 1/4 of Section 12, T 8 N, R 21 E			Local Grid Location Lat 0 ' " Long 0 ' " <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
Facility ID		County MILWAUKEE	County Code 41	Civil Town/City/ or Village Brown Deer	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 SS	12	7	0.0 - 2.5	TOPSOIL - loose, brown, moist, fine sand with some gravel	TO									
2 SS	14	13	2.5 - 3.0 3.0 - 5.0	SILTY SAND (SM) - medium dense, tan, moist	TO SM					21.3				
3 SS	14	11	5.0 - 6.6 6.6 - 7.5	SILT (ML) - loose to medium dense, gray, moist to saturated, some fine sand	SM ML					14.1				
4 SS	10	5	7.5 - 10.0		ML					23.9				
5 SS	12	8	10.0 - 12.5 12.5 - 14.5		ML					26.5				
6 SS	10	17	14.5 - 15.0 15.0 - 15.5 15.5 - 16.5	SILTY SAND (SM) - medium dense, grav. saturated, trace gravel SAND (SW) - medium dense, gray, saturated, medium to fine grained sand	SM SM SW					19.5				
7 SS	16	14	16.5 - 17.5	SILTY SAND (SM) - medium dense grav. saturated, trace gravel	CL					11.8				
8 SS	12	27	17.5 - 20.0	SANDY CLAY (CL) - medium stiff to very stiff, grav, moist	CL				4	15.1				
9 SS	18	39	20.0 - 22.5		CL				2.7	19.1				

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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☐

Page 1 of 1

Facility/Project Name Oak Leaf Trail - Brown Deer Village Park			License/Permit/Monitoring Number		Boring Number B-3	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: K Last Name: H Firm: Soils and Engineering Services, Inc.			Date Drilling Started 07 / 24 / 2008 m m d d y y y y		Date Drilling Completed 07 / 24 / 2008 m m d d y y y y	
Drilling Method hollow stem auger			Final Static Water Level Feet MSL		Surface Elevation 648.54 Feet MSL	
WI Unique Well No.		DNR Well ID No.		Well Name		Borehole Diameter 8 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane N, E Lat 0 ' " Long 0 ' "			Local Grid Location Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W			
NW 1/4 of SE 1/4 of Section 2, T 8 N, R 21 E			County Code 41			
Facility ID		County MILWAUKEE		Civil Town/City/ or Village Brown Deer		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 SS	4	9	0.0 - 2.5	TOPSOIL - loose, brown, moist, fine sand	TO					12.9				
2 SS	18	10	2.5 - 3.0 3.0 - 5.0	SILTY CLAY (CL) - medium stiff to very stiff to very stiff, brown, moist, trace gravel	TO CL				2.9	19.6				
3 SS	18	7	5.0 - 7.5		CL				1.7	26.3	38	15	99.5	groundwater at 6'2".
4 SS	18	6	7.5 - 10.0		CL				2.3	26.7				
5 SS	18	7	10.0 - 12.5		CL				2	24.3				
6 SS	18	7	12.5 - 15.0		CL				0.7	19.9				
7 SS	12	22	15.0 - 17.5		CL				0.9	15.6				
8 SS	18	6	17.5 - 20.0		CL				1	17.4				
9 SS	16	16	20.0 - 22.5		CL				2	11.5				

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[illegible]

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelpment ☐ Other ☐

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Facility/Project Name Oak Leaf Trail - Brown Deer Village Park			License/Permit/Monitoring Number		Boring Number B-4
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: K Last Name: H Firm: Soils and Engineering Services, Inc.			Date Drilling Started 07 / 25 / 2008 m m / d d / y y y y	Date Drilling Completed 07 / 25 / 2008 m m / d d / y y y y	Drilling Method hollow stem auger
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level Feet MSL	Surface Elevation 647.78 Feet MSL	Borehole Diameter 8 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane N, E Lat 0 1 "			Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E Feet <input type="checkbox"/> S Feet <input type="checkbox"/> W		
NW 1/4 of SE 1/4 of Section 2, T 8 N, R 21 E			Long 0 1 "		
Facility ID		County MILWAUKEE	County Code 41	Civil Town/City/ or Village Brown Deer	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 SS	6	6	2	0.0 - 2.0 TOPSOIL - loose, brown, moist, fine grained sand with some clay	TO									
				2.0 - 2.5 SILTY CLAY (CL) - medium stiff to very stiff, brown to gray, moist, trace gravel	CL				0.8	20.6				
2 SS	16	6	4	2.5 - 5.0	CL				2.2	19.5				
3 SS	18	7	6	5.0 - 7.5	CL				2	24.2				
4 SS	18	7	8	7.5 - 10.0	CL				2.5	18.7				
5 SS	16	7	10	10.0 - 12.5	CL				2.1	26.5				
6 SS	18	6	12	12.5 - 15.0	CL				1.5	21.3	26	12	95.4	
7 SS	14	6	14	15.0 - 17.5 some find sand and gravel from 17' to 23'	CL				0.75	16.7				
8 SS	18	9	18	17.5 - 20.0	CL				0.9	18.4				Water at 19 feet
9 SS	18	8	20	20.0 - 22.5 gravel at 22'	CL				1.3	16				

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Sample		Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length An. & Recovered (in.)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
10 SS	12	8	22 23 24 25 26	22.5 - 23.0 23.0 - 25.0 SAND (SW) - loose, gray, saturated, fine sand 25.0 - 28.0	CL SW SW									
11 SS	18	12	28 29 30	28.0 - 30.0 SILTY CLAY (CL) - hard, gray, moist alternating with layers of fine sand	CL									
12 SS	18	23	30 31 32 33 34 35 36	30.0 - 35.0 35.0 - 36.0 End of borehole at 35 feet. Borehole abandoned with 4 sacks of bentonite chips.	CL									Second sample has moisture content of 16.4%